



US Army Corps
of Engineers
Huntsville Center

Program Manager
(256) 895-1417
April 2006

Energy Program

**RELEVANT
READY
RESPONSIVE
RELIABLE**

*Proudly serving the Armed Forces and
the Nation now and in the future.*

Public Affairs Office (256) 895-1693
<http://www.hnd.usace.army.mil>

Background

Huntsville Center has provided support for energy programs starting with the Energy Policy Act of 1992. Support includes, but is not limited to, Energy Savings Performance Contracting (ESPC), Utility Modernization projects, and Utility Monitoring and Control Systems (UMCS). The Assistant Chief of Staff for Installation Management (ACSIM) and the Installation Management Agency (IMA) recognize Huntsville Center as a valuable resource to help accomplish the Army Energy Campaign's five goals for 2010. These goals are

- (1) Eliminate energy waste in existing facilities
- (2) Increase energy efficiency in new construction and renovations
- (3) Reduce dependence on fossil fuels
- (4) Conserve water resources
- (5) Improve energy security

Purpose

The purpose of this program is to support ACSIM and IMA in the implementation of the Army Energy Campaign through specific programs and projects.

Scope

• **ESPC** — Under ESPC, contractors provide the financing and perform energy-related infrastructure improvements, and the government repays the contractors from the resultant energy cost savings over a period of 10 to 25 years. From 1998 to date, Huntsville Center has awarded ESPC contracts that have resulted in \$420 million in contractor-financed infrastructure improvements on Army installations and a total projected energy cost savings to the government of \$100 million.

• **Utility Modernization** — Huntsville Center has partnered with districts to accomplish Operations and Maintenance, Army (OMA)-funded utility modernization projects at various Army installations. Examples include replacement of the high temperature water distribution systems at Fort Carson, Colo., with a new technology piping system that is less costly and inherently corrosion resistant; and repair/replacement of high temperature and chilled water distribution lines at Fort Bragg, N.C.

• **UMCS** — Huntsville Center has installed UMCS at numerous Army installations, to include the specialized Operations and Maintenance contract services required for these systems to continue their energy savings return on investment.

Future Direction

At IMA's request, Huntsville Center provided a proposal for management of an Army-wide **Energy Engineering Analysis Program** that would use the expertise and capabilities of the Construction Engineering Research Laboratory (CERL), districts and others to provide the following:

- Perform energy consumption assessments for selected facilities / installations
- Evaluate, identify and recommend implementation options for energy conservation projects
- Oversee implementation of selected options
- Assist in sustaining local energy programs
- Provide energy related training
- Include water conservation and wastewater treatment

Huntsville Center is working closely with the CERL, to develop protocols for energy project identification, scoping and documentation. On a broader scale, Huntsville Center along with CERL have been invited by ACSIM to help author the Army's Energy Campaign Plan for accomplishment of its energy objectives.